Benha University Faculty of Science Chemistry Depar



January, 2019 Time: 2 hrs Carb., Amino acids & Lip. (419 Ch) 4st Level Students

	(عبال)	(نصف مرقه امذ					
	(نصف ورقه إمتحانيه)						
	الزمن: ساعتان الإجابة النموذجية لامتحان الكربو هيدرات والاحماض الامينية والليبدات 419 ك						
	الفرقة : الرابعة						
	الشعبة : ميكروبيولوجي وكيمياء						
	التاريخ : مساء الاربعاء 9 /1 / 2019						
	. •						
		الممتحن : د/أمل محمد محمود					
			قسم: الكيمياء				
			كلية : العلوم				
Choose the correct answer: (48x0.5=24 mark)							
49 a	amino acids contain ami	no group and two car	boxvlic groups.				
a) acidic	b) basic	c) neutral	d) none of them				
	occurring amino acids	,	/				
a) L	b) D	c) trans	d) cis				
	tion of amino acids depe	<i>,</i>	·				
a) boiling point		c) conducting					
, U	an example of	, e					
a) acidic	_	c) basic	d) (a)&(b)				
,	lowing amino acids have	,					
a) glycine	b) alanine	c) lysine	d) all of them				
	lowing presented basic a	· •					
a) valine	b) arginine	c) histidine	$\frac{d}{d}$				
,	hydrolysed to give a mix						
$\frac{a}{a}$	b) β	c) γ	d) σ				
	<i>i</i> i	<i>i</i> i	followed by hydrolysis in acidic				
media to form		ss of fiquid difficient	i ionowed by nyurorysis in defate				
a) glycine	b) alanine	c) phenylalanine	d) lysine				
	st in form in a	· - •	d) If since				
a) zwitter ion	b) dipolar ion	c) positive ion	<mark>d) (a)&(b)</mark>				
,	, 1	· 1	ally hydrolysis, the product is				
a) histidine	b) glycine	c) alanine	d) phenylalanine				
·	n amino acids exist as	,	e) phonylatannie				
a) cations	b) anions	c) negative ion	d) (b)&(c)				
	haveisoelectr						
a) equal	b) the same	c) different	d) (a)&(b)				
, 1	·						
a) COOH	b) NH ₂	c) OH	d) other functional				
·	, _	/					
	ids have isoelectric point b) low	c) around 3	d) (b)&(c)				
a) high	0) IOW	c) around 5	\mathbf{u} (\mathbf{v}) \mathbf{x} (\mathbf{v})				

63- In basic solution, the am			
	node		d) none of them
64- Basic amino acids have			
a) 10 b) 3		c) 5.5	d) 6.3
65- The amino acid molecul	_		
	ositive	c) dipolar	d) (a)&(c)
66- Amino acids are soluble			
	enzene	c) xylene	
67- When glycine treated w			
a) propylamine b) e 68- Hippuric acid was obtai	thylamine <mark>c)</mark>	methylamine d) d	α-hydroxyacetic acid
68- Hippuric acid was obtai	ned by reaction of	glycine with	•••••
		c) benzoyl chloride	
69- 2-aminopropionic acid u			
		c) methylamine	
70- Alanine undergoes react			
		c) hippuric acid	d) aspartic acid
71- Glycine reacts with nitre	osyl chloride to for	m	
		nic c) α -halo acid	
72-N-methyleneglycine was	obtained by reaction	on of glycine with	•••••
		c) benzaldehyde	d) acetyl chloride
73- β-amino acids undergo			
a) α,β-unsaturated acids	b) cyclic diai	nide c) lactams	d) none of them
74- On heating of β-alanine			
a) crotonic acid b) a	erylic acid c) a	acetic acid	d) 2-amino ethanol
75- γ-aminobutyric acid und	lergoes intramolec	ular dehydration to forr	n
a) cyclic diamide	b) lactam	c) cyclic amide	<mark>d) (b)&(c)</mark>
76- α-amino acids undergo	neating to give	•••••	
a) α , β -unsaturated acids	b) cyclic amide	s c) lactams	d) cyclic diamides
77- Proteins can be classifie	d according to com	position for	. types.
<mark>a) two</mark>	b) three	c) four	d) five
78- Simple proteins are sub	divided according	to	
a) solubility b)	prosthetic group	c) coagulation by hea	t d) (a)&(c)
79- Albumins are			
a) water-insoluble b)	water-soluble	c) coagulated by heat	<mark>d) (b)&(c)</mark>
80- Scleroproteins are found	l in	•••	
	animals		d) (a)&(b)
81- Globulins are insoluble	in water but solubl	e in	solutions.
		c) concentrate acid	
82- Globin in hemoglobin is			,
a) histones b) g	-		d) none of them
83- Which of the following a		-	,
	nistones	c) glutenins	d) protamine
84- Which of the following J			
	istones		d) (b)&(c)
85- Conjugated proteins are		· 1	
• • •		c) coagulation by heat	
86- Glycoproteins contain a	<u> </u>	· •	
		c) cholesterol ester	d) phosphoric acid
87- Which of the following p			
a) glycoproteins b			
a) Bijeoproteinis		-,	

88- Casein is an example			
a) glycoproteins	b) lipoproteins	c) phosphoproteins	d) nucleoproteins
89- Insulin is a common e	xample of a protein	in	•••
a) enzyme	b) hormone	c) antibodies	d) none of them
90- Gamma globulins pre	sent in blood are e	example of	
a) enzymes	b) hormones	c) antibodies	d) structural proteins
91- Which of the followin	g act as contractil	e proteins?	
a) actin	b) pesin	c) myosin	d) (a)&(c)
92 acts as cata	alyst for the chemi	cal reaction in living org	anisms.
	b) enzyme	c) vitamin	d) antibodies
93- Fibrinogen acts as	•••••		
a) structural protein	b) hormone	c) antibodies	d) blood protein
94 act as com	munication links b	between different parts o	f organisms.
		c) antibodies	
95- Trypsin is an example	e of		,
a) contractile protein			d) antibodies
96- Collagen is an exampl		· · · · · · · · · · · · · · · · · · ·	,
	b) contractile	c) blood	d) all of them

With best wishes Dr. Amal M. Metwally